



(11) **EP 1 445 407 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
 11.08.2004 Bulletin 2004/33

(51) Int Cl.7: E05C 9/04

(21) Application number: 04250400.1

(22) Date of filing: 28.01.2004

(84) Designated Contracting States:
 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
 HU IE IT LI LU MC NL PT RO SE SI SK TR
 Designated Extension States:
 AL LT LV MK

(72) Inventor: Franklin, Martin
 Holland-on-Sea, Essex CO15 5LZ (GB)

(74) Representative: Rackham, Stephen Neil
 GILL JENNINGS & EVERY,
 Broadgate House,
 7 Eldon Street
 London EC2M 7LH (GB)

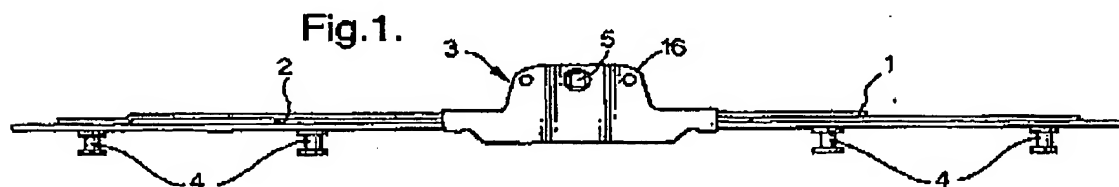
(30) Priority: 28.01.2003 GB 0301957
 28.07.2003 EP 03254717

(71) Applicant: Nico Manufacturing Limited
 Clacton-on-Sea, Essex CO15 3TJ (GB)

(54) **BI-directional espagnolette bolt**

(57) An espagnolette locking mechanism for use in locking a movable leaf into a surrounding fixed frame of a window or door comprises a drive transfer mechanism (3) for connection to a rotatable handle and adapted, in use, to convert rotary movement of the handle into simultaneous translatory movement of driving elements (8, 9) in each of two opposing substantially parallel directions. Primary and secondary drive transfer members (1,2) extend on both sides of the drive transfer mechanism (3) and are connected to the driving ele-

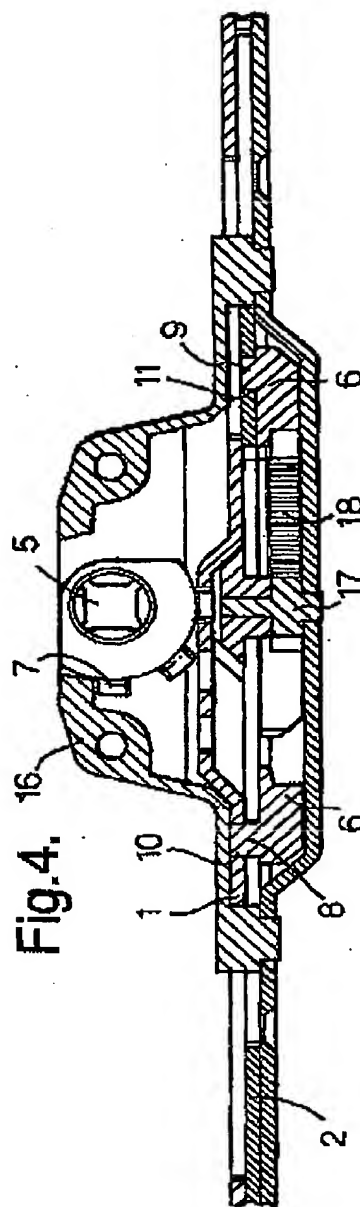
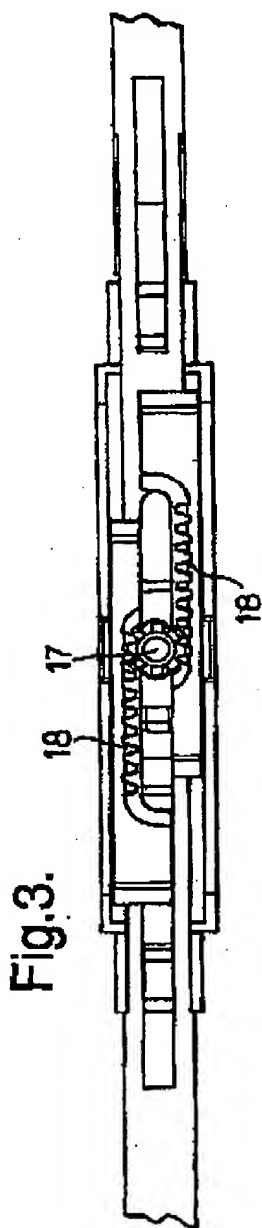
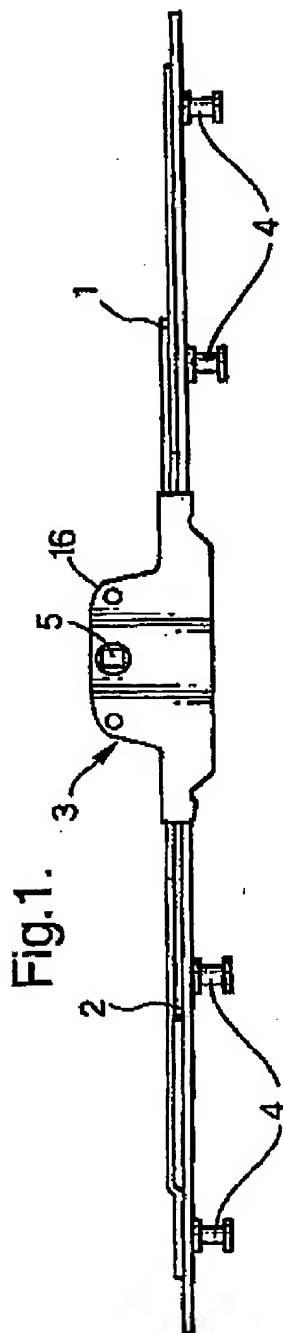
ments (8, 9). Locking pins (4) connected to both the primary and secondary drive transfer members (1,2) are arranged in pairs on both sides of the drive transfer mechanism (3) with one of each pair being connected to the primary drive transfer member (1) and the other of each pair being connected to the secondary drive transfer member (2), so that, in use, each pair of locking pins (4) are displaced towards and away from one another upon rotation of the handle to lock and unlock the leaf and frame.



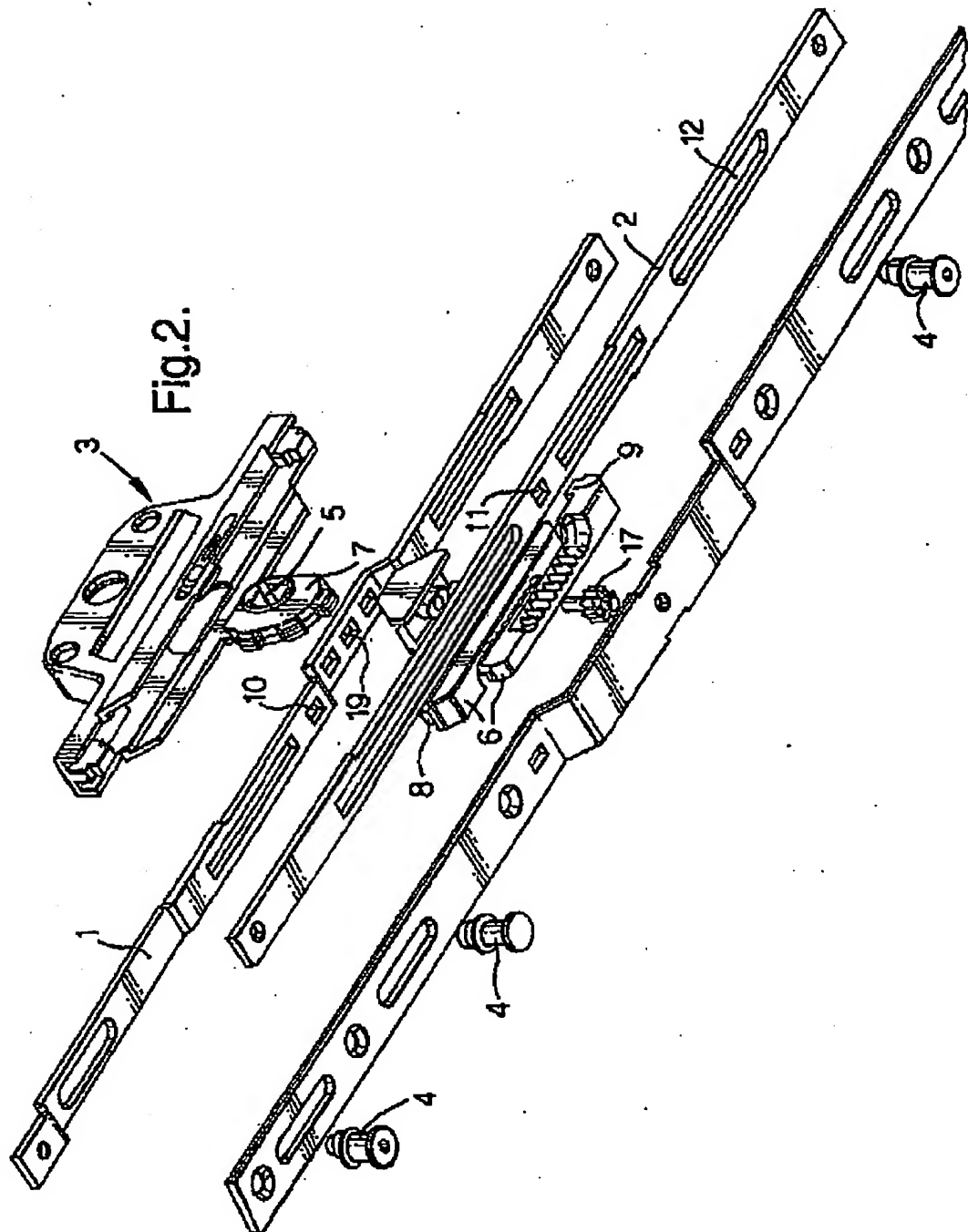
EP 1 445 407 A1

Printed by Jouve, 75001 PARIS (FR)

EP 1 445 407 A1



EP 1 445 407 A1



EP 1 445 407 A1

Fig.5.

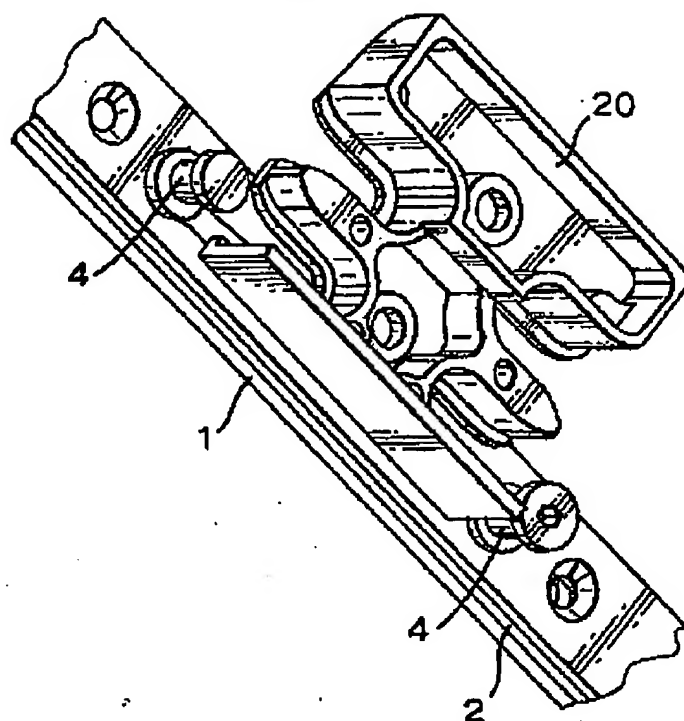
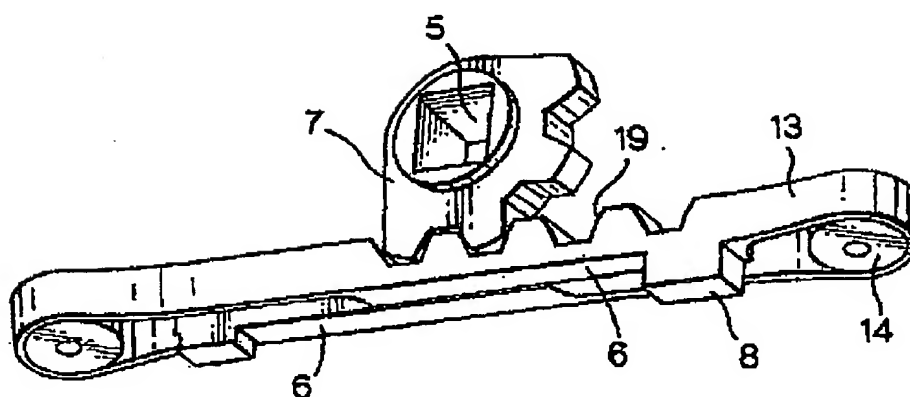
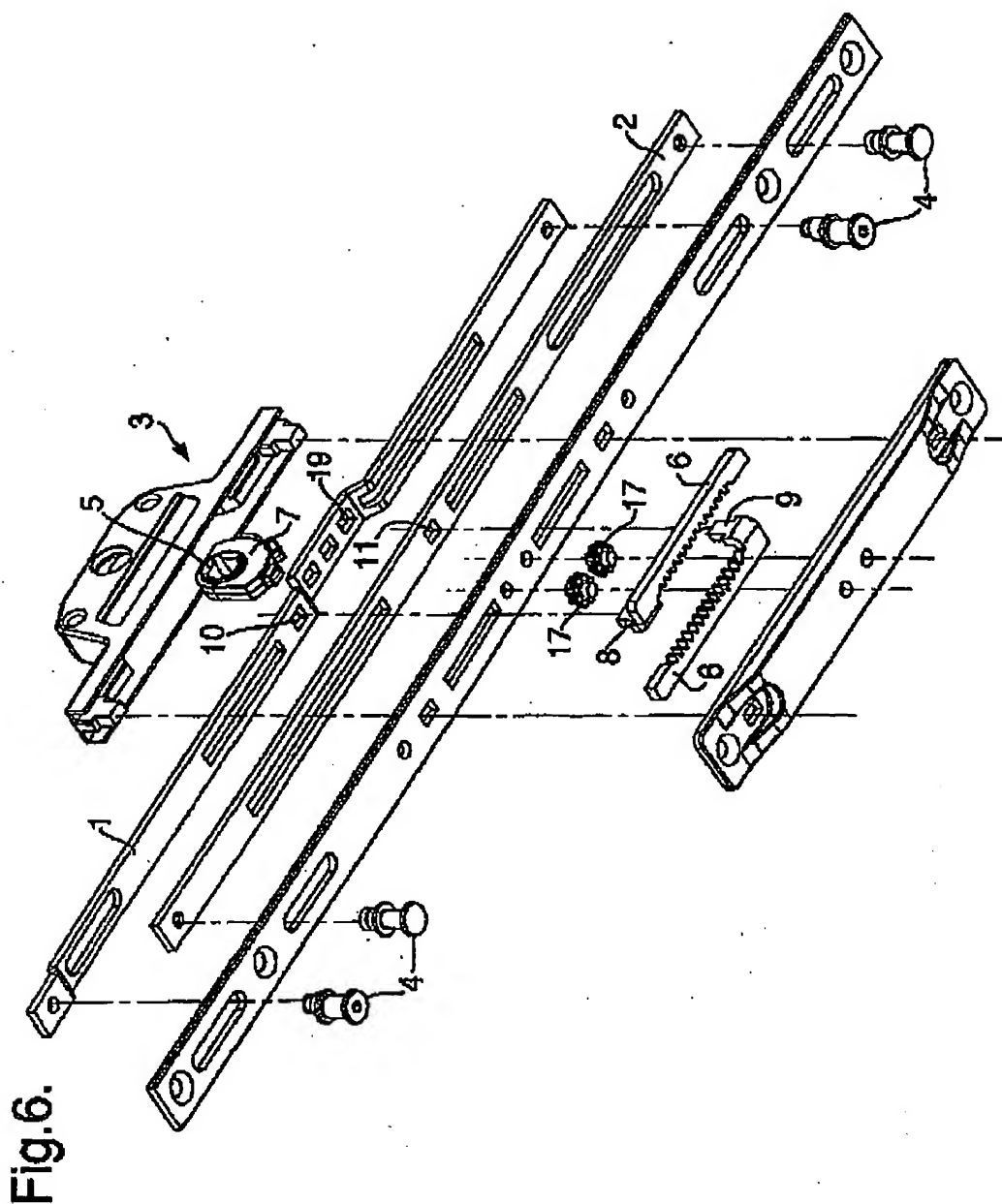


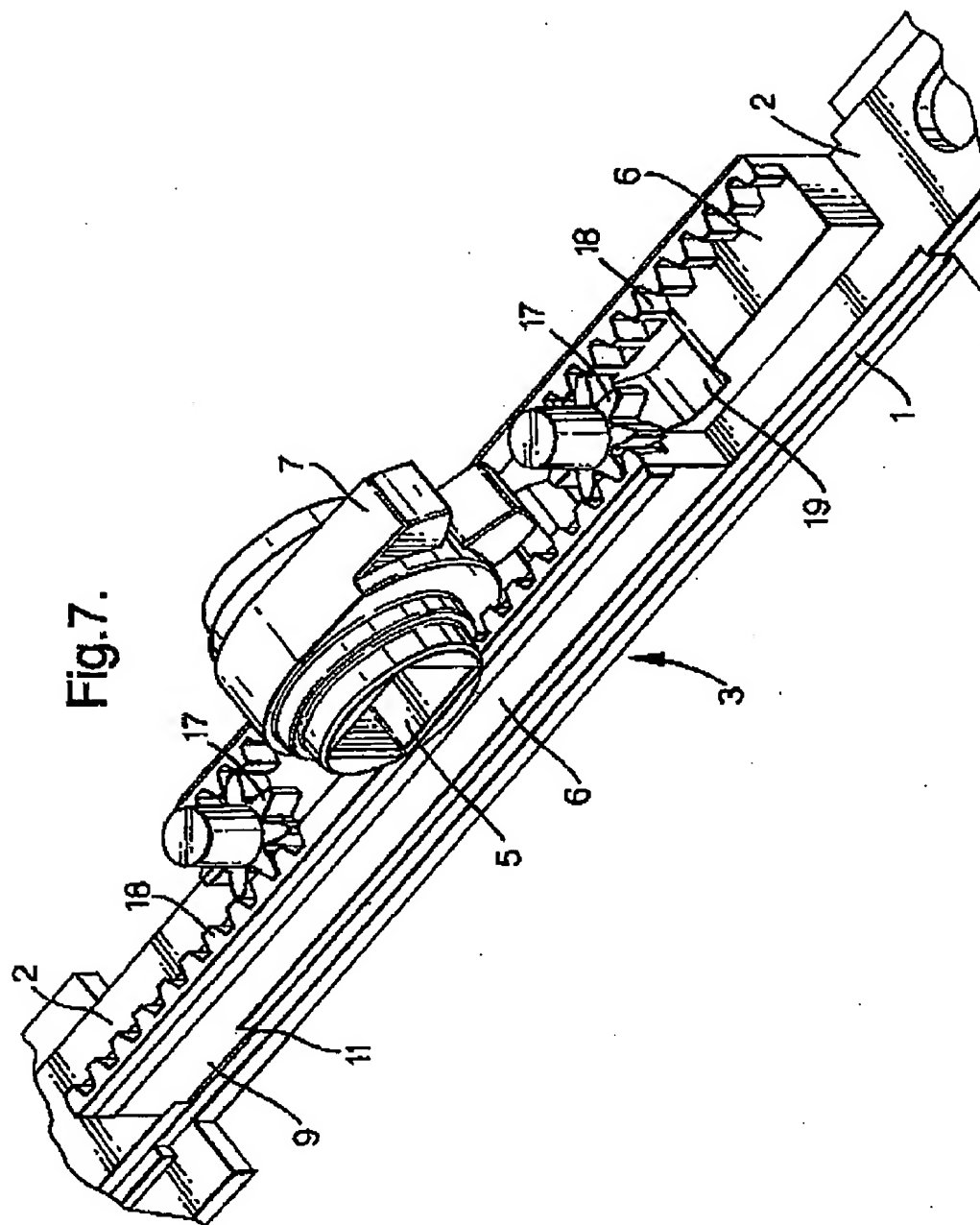
Fig.8.



EP 1 445 407 A1



EP 1 445 407 A1



11

EP 1 445 407 A1

Fig.9.

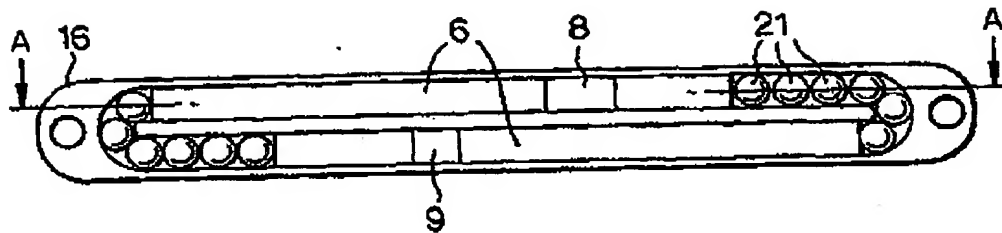


Fig.10.

